

Trendmaster®2000:

more problems can be solved using new software enhancements



New enhancements to Trendmaster®2000 System Software provide tools to help solve machinery problems. These enhancements are the result of your feedback.

Along with Distributed Control System (DCS) interface capabilities, two new enhancements to the Trendmaster® 2000 System Software are providing the tools to solve more customer problems. Adding both *Enhanced Trend* and *Fault Frequency Labeling* capabilities to the system has resulted in identifying and acting on machinery fault conditions more quickly and effectively.

An *Enhanced Trend* feature has been added to aid in determining the condition of a machine either before or after an alarm has occurred. This is a new plot option. You can now configure the Trendmaster® 2000 to display short term Trend plots for a point.

Some Trendmaster® 2000 users have found the need for faster trend intervals under certain conditions. Trendmaster 2000 now offers you the following five *Fast Trend* configuration options to meet your individual diagnostic requirements:

- 12 hours with 10 minute intervals
- 24 hours with 20 minute intervals
- 3 days with 1 hour intervals
- 7 days with 2 hour intervals
- 14 days with 4 hour intervals

This new feature does not affect the point's standard Trend plot (up to 270 days with 1 day intervals). You now have both long-term and short-term Trend plots available for machinery diagnostics.

A *Fault Frequency Labeling* enhancement has been added to help you diagnose possible fault conditions in rolling element bearing machines. Typically, a frequency domain plot, such as a Spectrum plot, is used during diagnostics. This new feature allows you to display up to six fault frequencies automatically on a plot. Using this feature, you can easily see if an amplitude "spike" is occurring at an important frequency, such as the bearing's .5X, 1X, 2X or its Ball Pass Frequency - Inner Race (BPFI), Ball Pass Frequency - Outer Race (BPFO), Ball Spin Frequency (BSF) or Fundamental Train Frequency (FTF). The six labels are defined and configured by you. When printing a plot, the labels can be easily removed via a toggle key. Bently Nevada's Machinery Diagnostic Services engineers are available for consultation on determining key frequencies, explaining their meanings and diagnosing problems using Remote Access Software.

These new features for the Trendmaster® 2000 are the result of your feedback. They have been incorporated to aid in making safety and maintenance decisions more informed, efficient and effective. Future enhancements to the system will also follow these guidelines. Contact your nearest Bently Nevada sales representative for additional information or system requirements on these new features for Trendmaster® 2000. ■